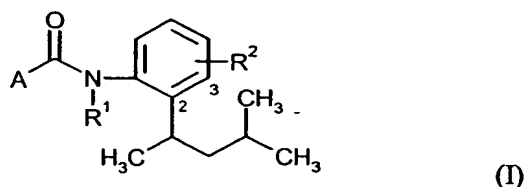


Patent claims

1. 1,3-Dimethylbutylcarboxanilides of the formula (I)



5 in which

R^1 represents hydrogen, C_1 - C_8 -alkyl, C_1 - C_6 -alkylsulphinyl, C_1 - C_6 -alkylsulphonyl, C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -cycloalkyl; C_1 - C_6 -haloalkyl, C_1 - C_4 -haloalkylthio, C_1 - C_4 -haloalkylsulphinyl, C_1 - C_4 -haloalkylsulphonyl, halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; formyl, formyl- C_1 - C_3 -alkyl, (C_1 - C_3 -alkyl)carbonyl- C_1 - C_3 -alkyl, (C_1 - C_3 -alkoxy)carbonyl- C_1 - C_3 -alkyl; halo-(C_1 - C_3 -alkyl)carbonyl- C_1 - C_3 -alkyl, halo-(C_1 - C_3 -alkoxy)carbonyl- C_1 - C_3 -alkyl having in each case 1 to 13 fluorine, chlorine and/or bromine atoms;

(C_1 - C_8 -alkyl)carbonyl, (C_1 - C_8 -alkoxy)carbonyl, (C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)-carbonyl, (C_3 - C_8 -cycloalkyl)carbonyl; (C_1 - C_6 -haloalkyl)carbonyl, (C_1 - C_6 -haloalkoxy)carbonyl, (halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)carbonyl, (C_3 - C_8 -halocycloalkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; or $-C(=O)C(=O)R^3$, $-CONR^4R^5$ or $-CH_2NR^6R^7$,

R^2 represents hydrogen, fluorine, chlorine, methyl or trifluoromethyl,

R^3 represents hydrogen, C_1 - C_8 -alkyl, C_1 - C_8 -alkoxy, C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -cycloalkyl; C_1 - C_6 -haloalkyl, C_1 - C_6 -haloalkoxy, halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

R^4 and R^5 independently of one another each represent hydrogen, C_1 - C_8 -alkyl, C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -cycloalkyl; C_1 - C_8 -haloalkyl, halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

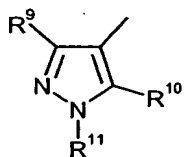
R^4 and R^5 furthermore together with the nitrogen atom to which they are attached form a saturated heterocycle having 5 to 8 ring atoms which is optionally mono- or polysubstituted by identical or different substituents from the group consisting of halogen and C_1 - C_4 -alkyl, where the heterocycle may contain 1 or 2 further non-adjacent heteroatoms from the group consisting of oxygen, sulphur and NR^8 ,

R^6 and R^7 independently of one another represent hydrogen, C_1 - C_8 -alkyl, C_3 - C_8 -cycloalkyl; C_1 - C_8 -haloalkyl, C_3 - C_8 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

R^6 and R^7 furthermore together with the nitrogen atom to which they are attached form a saturated heterocycle having 5 to 8 ring atoms which is optionally mono- or polysubstituted by identical or different substituents from the group consisting of halogen and C_1 - C_4 -alkyl, where the heterocycle may contain 1 or 2 further non-adjacent heteroatoms from the group consisting of oxygen, sulphur and NR^8 ,

R^8 represents hydrogen or C_1 - C_6 -alkyl,

A represents the radical of the formula (A1)



(A1) in which

R^9 represents hydrogen, hydroxyl, formyl, cyano, fluorine, chlorine, bromine, nitro, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_3 - C_6 -cycloalkyl, C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkoxy or C_1 - C_4 -haloalkylthio having in each case 1 to 5 halogen atoms, aminocarbonyl or aminocarbonyl- C_1 - C_4 -alkyl,

R^{10} represents hydrogen, chlorine, bromine, iodine, cyano, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

R^{11} represents hydrogen, C_1 - C_4 -alkyl, hydroxyl- C_1 - C_4 -alkyl, C_2 - C_6 -alkenyl, C_3 - C_6 -cycloalkyl, C_1 - C_4 -alkylthio- C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkylthio- C_1 - C_4 -alkyl, C_1 - C_4 -haloalkoxy- C_1 - C_4 -alkyl having in each case 1 to 5 halogen atoms, or represents phenyl,

with the proviso,

a) that R^9 does not represent trifluoromethyl, difluoromethyl, methyl or ethyl if R^{10} represents hydrogen or chlorine, R^{11} represents methyl and R^1 and R^2 simultaneously represent hydrogen,

b) that R^9 does not represent methyl, difluorochloromethyl, trifluoromethyl, difluoromethyl, chlorine or bromine if R^{10} represents hydrogen, fluorine, trifluoromethyl or methyl, R^{11} represents methyl, trifluoromethyl, methoxymethyl or trifluoromethoxymethyl and R^1 represents (C_1 - C_6 -alkyl)carbonyl, (C_1 - C_6 -alkoxy)carbonyl, (C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)-carbonyl; (C_1 - C_6 -haloalkyl)carbonyl, (C_1 - C_6 -haloalkoxy)carbonyl, (halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

or

A represents the radical of the formula (A2)



(A2) in which

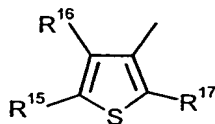
R^{12} and R^{13} independently of one another represent hydrogen, halogen, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having in each case 1 to 5 halogen atoms and

R^{14} represents halogen, cyano or C_1 - C_4 -alkyl, or C_1 - C_4 -haloalkyl or C_1 - C_4 -haloalkoxy having in each case 1 to 5 halogen atoms,

with the proviso that R^{14} does not represent methyl if R^{12} and R^{13} represent hydrogen or methyl and R^1 and R^2 simultaneously represent hydrogen,

or

A represents the radical of the formula (A3)



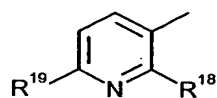
(A3) in which

R^{15} and R^{16} independently of one another represent hydrogen, halogen, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms and

R^{17} represents hydrogen, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

A represents the radical of the formula (A4)



(A4) in which

R^{18} represents halogen, hydroxyl, cyano, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkylthio or C_1 - C_4 -haloalkoxy having in each case 1 to 5 halogen atoms,

R^{19} represents hydrogen, halogen, cyano, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkoxy having in each case 1 to 5 halogen atoms, C_1 - C_4 -alkylsulphinyl or C_1 - C_4 -alkylsulphonyl,

with the proviso,

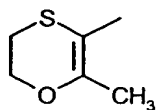
a) that R^{18} does not represent trifluoromethyl, methyl, chlorine or methylthio if R^{19} represents hydrogen and R^1 and R^2 simultaneously represent hydrogen,

b) that R^{18} does not represent methyl, difluorochloromethyl, trifluoromethyl, difluoromethyl, chlorine or bromine if R^{19} represents hydrogen and R^1

represents (C₁-C₆-alkyl)carbonyl, (C₁-C₆-alkoxy)carbonyl, (C₁-C₄-alkoxy-C₁-C₄-alkyl)carbonyl; (C₁-C₆-haloalkyl)carbonyl, (C₁-C₆-haloalkoxy)carbonyl, (halo-C₁-C₄-alkoxy-C₁-C₄-alkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

5 or

A represents the radical of the formula (A5)

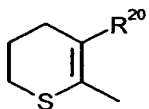


(A5),

with the proviso, that R¹ and R² do not simultaneously represent hydrogen if A represents A5,

10 or

A represents the radical of the formula (A6)

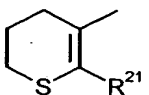


(A6) in which

R²⁰ represents C₁-C₄-alkyl or C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

or

15 A represents the radical of the formula (A7)

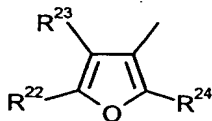


(A7) in which

R²¹ represents C₁-C₄-alkyl or C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

or

A represents the radical of the formula (A8)



(A8) in which

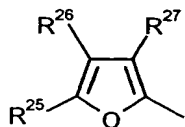
R²² and R²³ independently of one another represent hydrogen, halogen, amino, C₁-C₄-alkyl or C₁-C₄-haloalkyl having 1 to 5 halogen atoms and

R²⁴ represents hydrogen, C₁-C₄-alkyl or C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

25 with the proviso that R²⁴ does not represent methyl if R²² and R²³ represent hydrogen or methyl and R¹ and R² simultaneously represent hydrogen,

or

A represents the radical of the formula (A9)

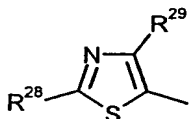


(A9) in which

R²⁵ and R²⁶ independently of one another represent hydrogen, halogen, amino, nitro, C₁-C₄-alkyl or C₁-C₄-haloalkyl having 1 to 5 halogen atoms and R²⁷ represents halogen, C₁-C₄-alkyl or C₁-C₄-haloalkyl having 1 to 5 halogen atoms,

or

A represents the radical of the formula (A10)



(A10) in which

R²⁸ represents hydrogen, halogen, amino, C₁-C₄-alkylamino, di-(C₁-C₄-alkyl)-amino, cyano, C₁-C₄-alkyl or C₁-C₄-haloalkyl having 1 to 5 halogen atoms and

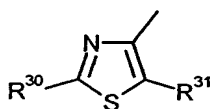
R²⁹ represents halogen, hydroxyl, C₁-C₄-alkyl, C₁-C₄-alkoxy, C₃-C₆-cycloalkyl, C₁-C₄-haloalkyl or C₁-C₄-haloalkoxy having in each case 1 to 5 halogen atoms,

with the proviso,

- a) that R²⁹ does not represent trifluoromethyl, difluoromethyl, methyl or ethyl if R²⁸ represents hydrogen or methyl and R¹ and R² simultaneously represent hydrogen,
- b) that R²⁹ does not represent methyl, difluorochloromethyl, trifluoromethyl, difluoromethyl, chlorine or bromine if R²⁸ represents methyl, trifluoromethyl, methoxymethyl or trifluoromethoxymethyl and R¹ represents (C₁-C₆-alkyl)carbonyl, (C₁-C₆-alkoxy)carbonyl, (C₁-C₄-alkoxy-C₁-C₄-alkyl)carbonyl; (C₁-C₆-haloalkyl)carbonyl, (C₁-C₆-haloalkoxy)-carbonyl, (halo-C₁-C₄-alkoxy-C₁-C₄-alkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

or

A represents the radical of the formula (A11)



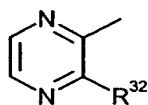
(A11) in which

R^{30} represents hydrogen, halogen, amino, C_1 - C_4 -alkylamino, di- $(C_1$ - C_4 -alkyl)-amino, cyano, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms and

R^{31} represents halogen, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

or

A represents the radical of the formula (A12)



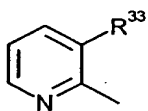
(A12) in which

R^{32} represents hydrogen, halogen, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl having 1 to 5 halogen atoms,

with the proviso that R^{32} does not represent chlorine if R^1 and R^2 simultaneously represent hydrogen,

or

A represents the radical of the formula (A13)

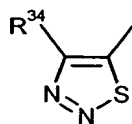


(A13) in which

R^{33} represents halogen, hydroxyl, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkylthio or C_1 - C_4 -haloalkoxy having in each case 1 to 5 halogen atoms,

or

A represents the radical of the formula (A14)



(A14) in which

R^{34} represents C_1 - C_4 -alkyl.

2. 1,3-Dimethylbutylcarboxanilides of the formula (I) according to Claim 1 in which

R^1 represents hydrogen, C_1 - C_6 -alkyl, C_1 - C_4 -alkylsulphinyl, C_1 - C_4 -alkylsulphonyl, C_1 - C_3 -alkoxy- C_1 - C_3 -alkyl, C_3 - C_6 -cycloalkyl; C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkylthio, C_1 - C_4 -haloalkylsulphinyl, C_1 - C_4 -haloalkylsulphonyl, halo- C_1 - C_3 -alkoxy- C_1 - C_3 -alkyl, C_3 - C_8 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; formyl, formyl- C_1 - C_3 -alkyl, $(C_1$ - C_3 -alkyl)carbonyl- C_1 - C_3 -alkyl, $(C_1$ - C_3 -alkoxy)carbonyl- C_1 - C_3 -alkyl; halo- $(C_1$ - C_3 -alkyl)carbonyl- C_1 - C_3 -alkyl, halo-

(C₁-C₃-alkoxy)carbonyl-C₁-C₃-alkyl having in each case 1 to 13 fluorine, chlorine and/or bromine atoms;

(C₁-C₆-alkyl)carbonyl, (C₁-C₄-alkoxy)carbonyl, (C₁-C₃-alkoxy-C₁-C₃-alkyl)-carbonyl, (C₃-C₆-cycloalkyl)carbonyl; (C₁-C₄-haloalkyl)carbonyl, (C₁-C₄-haloalkoxy)carbonyl, (halo-C₁-C₃-alkoxy-C₁-C₃-alkyl)carbonyl, (C₃-C₆-halo-cycloalkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; or -C(=O)C(=O)R³, -CONR⁴R⁵ or -CH₂NR⁶R⁷,

R² represents hydrogen, fluorine, chlorine, methyl or trifluoromethyl,

R³ represents hydrogen, C₁-C₆-alkyl, C₁-C₄-alkoxy, C₁-C₃-alkoxy-C₁-C₃-alkyl, C₃-C₆-cycloalkyl; C₁-C₄-haloalkyl, C₁-C₄-haloalkoxy, halo-C₁-C₃-alkoxy-C₁-C₃-alkyl, C₃-C₆-halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

R⁴ and R⁵ independently of one another represent hydrogen, C₁-C₆-alkyl, C₁-C₃-alkoxy-C₁-C₃-alkyl, C₃-C₆-cycloalkyl; C₁-C₄-haloalkyl, halo-C₁-C₃-alkoxy-C₁-C₃-alkyl, C₃-C₆-halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

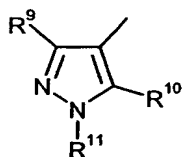
R⁴ and R⁵ furthermore together with the nitrogen atom to which they are attached form a saturated heterocycle having 5 or 6 ring atoms which is optionally mono- to tetrasubstituted by identical or different substituents from the group consisting of halogen and C₁-C₄-alkyl, where the heterocycle may contain 1 or 2 further non-adjacent heteroatoms from the group consisting of oxygen, sulphur and NR⁸,

R⁶ and R⁷ independently of one another represent hydrogen, C₁-C₆-alkyl, C₃-C₆-cycloalkyl; C₁-C₄-haloalkyl, C₃-C₆-halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

R⁶ and R⁷ furthermore together with the nitrogen atom to which they are attached form a saturated heterocycle having 5 or 6 ring atoms which is optionally mono- or polysubstituted by identical or different substituents from the group consisting of halogen and C₁-C₄-alkyl, where the heterocycle may contain 1 or 2 further non-adjacent heteroatoms from the group consisting of oxygen, sulphur and NR⁸,

R⁸ represents hydrogen or C₁-C₄-alkyl,

A represents the radical of the formula (A1)



(A1) in which

- R^9 represents hydrogen, hydroxyl, formyl, cyano, fluorine, chlorine, bromine, methyl, ethyl, isopropyl, methoxy, ethoxy, methylthio, ethylthio, cyclopropyl, C_1 - C_2 -haloalkyl, C_1 - C_2 -haloalkoxy having in each case 1 to 5 fluorine, chlorine and/or bromine atoms, trifluoromethylthio, difluoromethylthio, aminocarbonyl, aminocarbonylmethyl or aminocarbonylethyl,
- R^{10} represents hydrogen, chlorine, bromine, iodine, methyl, ethyl, methoxy, ethoxy, methylthio, ethylthio or C_1 - C_2 -haloalkyl having 1 to 5 halogen atoms,
- R^{11} represents hydrogen, methyl, ethyl, n-propyl, isopropyl, C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms, hydroxymethyl, hydroxyethyl, cyclopropyl, cyclopentyl, cyclohexyl or phenyl,

with the proviso,

- a) that R^9 does not represent trifluoromethyl, difluoromethyl, methyl or ethyl if R^{10} represents hydrogen or chlorine, R^{11} represents methyl and R^1 and R^2 simultaneously represent hydrogen,
- b) that R^9 does not represent methyl, difluorochloromethyl, trifluoromethyl, difluoromethyl, chlorine or bromine if R^{10} represents hydrogen, fluorine, trifluoromethyl or methyl, R^{11} represents methyl, trifluoromethyl, methoxymethyl or trifluoromethoxymethyl and R^1 represents (C_1 - C_6 -alkyl)carbonyl, (C_1 - C_6 -alkoxy)carbonyl, (C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)-carbonyl; (C_1 - C_6 -haloalkyl)carbonyl, (C_1 - C_6 -haloalkoxy)carbonyl, (halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

or

A represents the radical of the formula (A2)



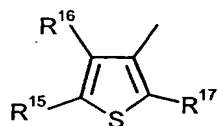
(A2) in which

- R^{12} and R^{13} independently of one another represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,
- R^{14} represents fluorine, chlorine, bromine, iodine, cyano, methyl, ethyl, C_1 - C_2 -haloalkyl or C_1 - C_2 -haloalkoxy having in each case 1 to 5 fluorine, chlorine and/or bromine atoms,

with the proviso that R^{14} does not represent methyl if R^{12} and R^{13} represent hydrogen or methyl and R^1 and R^2 simultaneously represent hydrogen,

or

A represents the radical of the formula (A3)



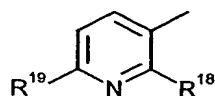
(A3) in which

R^{15} and R^{16} independently of one another represent hydrogen, fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

R^{17} represents hydrogen, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents the radical of the formula (A4)



(A4) in which

R^{18} represents fluorine, chlorine, bromine, iodine, hydroxyl, cyano, C_1 - C_4 -alkyl, methoxy, ethoxy, methylthio, ethylthio, difluoromethylthio, trifluoromethylthio, C_1 - C_2 -haloalkyl or C_1 - C_2 -haloalkoxy having in each case 1 to 5 fluorine, chlorine and/or bromine atoms,

R^{19} represents hydrogen, fluorine, chlorine, bromine, iodine, cyano, C_1 - C_4 -alkyl, methoxy, ethoxy, methylthio, ethylthio, C_1 - C_2 -haloalkyl or C_1 - C_2 -haloalkoxy having in each case 1 to 5 fluorine, chlorine and/or bromine atoms, C_1 - C_2 -alkylsulphinyl or C_1 - C_2 -alkylsulphonyl,

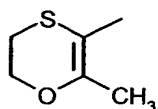
with the proviso,

a) that R^{18} does not represent trifluoromethyl, methyl, chlorine or methylthio if R^{19} represents hydrogen,

b) that R^{18} does not represent methyl, difluorochloromethyl, trifluoromethyl, difluoromethyl, chlorine or bromine if R^{19} represents hydrogen and R^1 represents (C_1 - C_6 -alkyl)carbonyl, (C_1 - C_6 -alkoxy)carbonyl, (C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)carbonyl; (C_1 - C_6 -haloalkyl)carbonyl, (C_1 - C_6 -haloalkoxy)carbonyl, (halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

or

A represents the radical of the formula (A5)

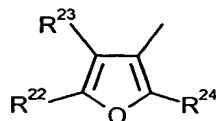


(A5),

with the proviso that R^1 and R^2 do not simultaneously represent hydrogen if A represents A5,

or

A represents the radical of the formula (A8)



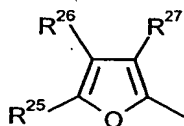
(A8) in which

R^{22} and R^{23} independently of one another represent hydrogen, fluorine, chlorine, bromine, amino, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

R^{24} represents hydrogen, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents the radical of the formula (A9)



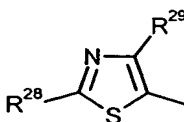
(A9) in which

R^{25} and R^{26} independently of one another represent hydrogen, fluorine, chlorine, bromine, amino, nitro, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

R^{27} represents fluorine, chlorine, bromine, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents the radical of the formula (A10)



(A10) in which

R^{28} represents hydrogen, fluorine, chlorine, bromine, amino, C_1 - C_4 -alkylamino, di- $(C_1$ - C_4 -alkyl)amino, cyano, methyl, ethyl or C_1 - C_2 -haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

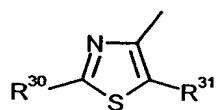
R^{29} represents fluorine, chlorine, bromine, hydroxyl, methyl, ethyl, methoxy, ethoxy, cyclopropyl or C_1 - C_2 -haloalkyl or C_1 - C_2 -haloalkoxy having in each case 1 to 5 fluorine, chlorine and/or bromine atoms,

with the proviso,

- a) that R^{29} does not represent trifluoromethyl, difluoromethyl, methyl or ethyl if R^{28} represents hydrogen or methyl and R^1 and R^2 simultaneously represent hydrogen,
- b) that R^{29} does not represent methyl, difluorochloromethyl, trifluoromethyl, difluoromethyl, chlorine or bromine if R^{11} represents methyl, trifluoromethyl, methoxymethyl or trifluoromethoxymethyl and R^1 represents (C₁-C₆-alkyl)carbonyl, (C₁-C₆-alkoxy)carbonyl, (C₁-C₄-alkoxy-C₁-C₄-alkyl)carbonyl; (C₁-C₆-haloalkyl)carbonyl, (C₁-C₆-haloalkoxy)-carbonyl, (halo-C₁-C₄-alkoxy-C₁-C₄-alkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

or

A represents the radical of the formula (A11)

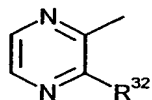


(A11) in which

- R^{30} represents hydrogen, fluorine, chlorine, bromine, amino, C₁-C₄-alkyl-amino, di-(C₁-C₄-alkyl)amino, cyano, methyl, ethyl or C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,
- R^{31} represents fluorine, chlorine, bromine, methyl, ethyl or C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,

or

A represents the radical of the formula (A12)

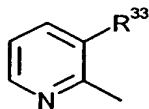


(A12) in which

- R^{32} represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl or C₁-C₂-haloalkyl having 1 to 5 fluorine, chlorine and/or bromine atoms,
- with the proviso that R^{32} does not represent chlorine if R^1 and R^2 simultaneously represent hydrogen,

or

A represents the radical of the formula (A13)



(A13) in which

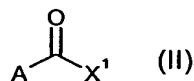
- R^{33} represents fluorine, chlorine, bromine, iodine, hydroxyl, C₁-C₄-alkyl, methoxy, ethoxy, methylthio, ethylthio, difluoromethylthio,

trifluoromethylthio, C₁-C₂-haloalkyl or C₁-C₂-haloalkoxy having in each case 1 to 5 fluorine, chlorine and/or bromine atoms.

3. 1,3-Dimethylbutylcarboxanilides of the formula (I) according to Claim 1 or 2 in which R¹ represents formyl.
4. 1,3-Dimethylbutylcarboxanilides of the formula (I) according to Claim 1 or 2 in which R¹ represents -C(=O)C(=O)R³, where R³ is as defined in Claim 1 or 2.
5. 1,3-Dimethylbutylcarboxanilides of the formula (I) according to Claim 1 or 2 in which A represents A1.

6. Process for preparing compounds of the formula (I) according to Claim 1, characterized in that

- a) carboxylic acid derivatives of the formula (II)

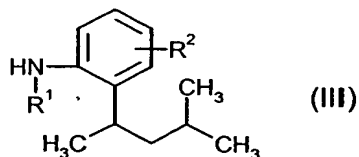


in which

A is as defined in Claim 1 and

X¹ represents halogen or hydroxyl,

are reacted with aniline derivatives of the formula (III)

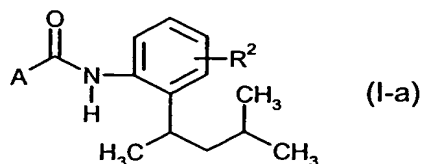


in which R¹ and R² are as defined in Claim 1,

if appropriate in the presence of a catalyst, if appropriate in the presence of a condensing agent, if appropriate in the presence of an acid binder and if appropriate in the presence of a diluent,

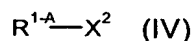
or

- b) hexylcarboxanilides of the formula (I-a)



in which A and R² are as defined in Claim 1,

are reacted with halides of the formula (IV)



in which

X^2 represents chlorine, bromine or iodine,

R^1 represents C_1 - C_8 -alkyl, C_1 - C_6 -alkylsulphinyl, C_1 - C_6 -alkylsulphonyl, C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -cycloalkyl; C_1 - C_6 -haloalkyl, C_1 - C_4 -haloalkylthio, C_1 - C_4 -haloalkylsulphinyl, C_1 - C_4 -haloalkylsulphonyl, halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, C_3 - C_8 -halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; formyl, formyl- C_1 - C_3 -alkyl, (C_1 - C_3 -alkyl)carbonyl- C_1 - C_3 -alkyl, (C_1 - C_3 -alkoxy)carbonyl- C_1 - C_3 -alkyl; halo-(C_1 - C_3 -alkyl)carbonyl- C_1 - C_3 -alkyl, halo-(C_1 - C_3 -alkoxy)carbonyl- C_1 - C_3 -alkyl having in each case 1 to 13 fluorine, chlorine and/or bromine atoms; (C_1 - C_8 -alkyl)carbonyl, (C_1 - C_8 -alkoxy)carbonyl, (C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)carbonyl, (C_3 - C_8 -cycloalkyl)carbonyl; (C_1 - C_6 -haloalkyl)carbonyl, (C_1 - C_6 -haloalkoxy)carbonyl, (halo- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl)carbonyl, (C_3 - C_8 -halocycloalkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; or $-C(=O)C(=O)R^3$, $CONR^4R^5$ or $-CH_2NR^6R^7$,

where R^3 , R^4 , R^5 , R^6 and R^7 are as defined in Claim 1,

in the presence of a base and in the presence of a diluent.

7. Compositions for controlling unwanted microorganisms, characterized in that they comprise at least one 1,3-dimethylbutylcarboxanilide of the formula (I) according to Claim 1 in addition to extenders and/or surfactants.
8. Use of 1,3-dimethylbutylcarboxanilides of the formula (I) according to Claim 1 for controlling unwanted microorganisms.
9. Method for controlling unwanted microorganisms, characterized in that 1,3-dimethylbutylcarboxanilides of the formula (I) according to Claim 1 are applied to the microorganisms and/or their habitat.
10. Process for preparing compositions for controlling unwanted microorganisms, characterized in that 1,3-dimethylbutylcarboxanilides of the formula (I) according to Claim 1 are mixed with extenders and/or surfactants.